

Claims

1. Silanised, structurally modified, pyrogenically produced silicas, characterised by groups fixed to the surface, wherein the groups are dimethylsilyl and/or monomethylsilyl.
2. Silanised, structurally modified, pyrogenically produced silicas according to claim 1, characterised by the following physico-chemical characteristics:

BET surface area m ² /g:	25 - 400
Average size of the primary particles nm:	5 - 50
pH value:	3 - 10
Carbon content %:	0.1 - 10
DBP value %:	< 200
3. Process for the production of the silanised, structurally modified, pyrogenically produced silica according to claim 1, characterised in that pyrogenically produced silica is treated by a known method with dimethyldichlorosilane and/or monomethyltrichlorosilane, the groups dimethylsilyl and/or monomethylsilyl being fixed on the surface of the pyrogenic silica, and is then structurally modified and optionally post-ground.
4. Process for the production of the silanised, structurally modified, pyrogenically produced silica according to claim 3, characterised in that a tempering takes place after the structural modification and/or post-grinding.
5. Use of the silanised, structurally modified, pyrogenically produced silica to improve the scratch resistance of lacquers.